



Create a wiki farm,
with automated deployment.

About me

Pierre Boutet
PHP developer

Start creating Wikifab in 2016

CTO @ Dokit since 2017



Create a wiki farm, with automated deployment.

- Dokit needs
- Dokit package
- Farm design
- Do it with Ansible

Dokit needs

- Host many wikis
- Use a standard « Dokit » Mediawiki package
- Allow config customization by wiki
- Automate wiki deployment
- Automate wiki updates

Constraints

- Keep it simple
- possible to deploy in many infrastructure & hosts providers (single or multiple hosts, Virtuals hosts, containers...)
- Scalable
- Cost efficient

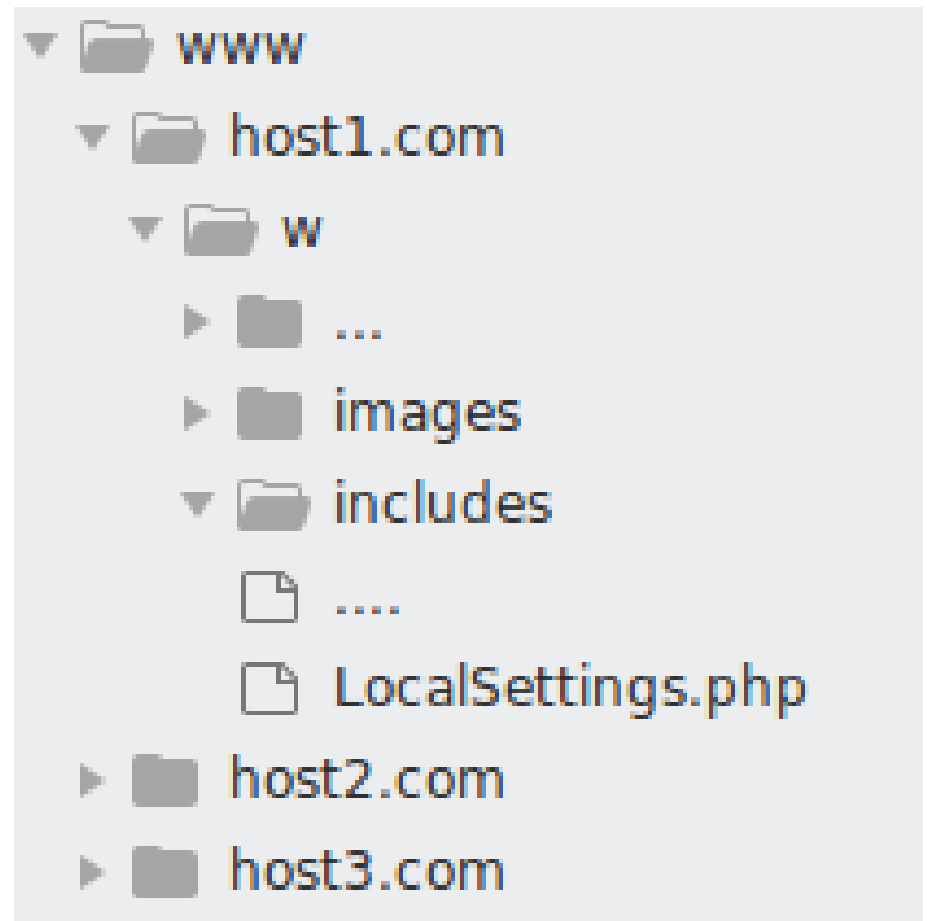
Dokit Package

- Mediawiki with some extensions :
 - Semantic Mediawiki + PageForms
 - Translate
 - Visual Editor
 - Chameleon based skin
 - « Dokit » Style
 - Page Media Gallery
 - Pdf Export Requests
 - ...
- Preloaded pages and templates
- Configurations files LocalSettings.dokit.*.php
- Build with composer & phing

Farm design

Farm design

Deploy a standard mediawiki for each wiki

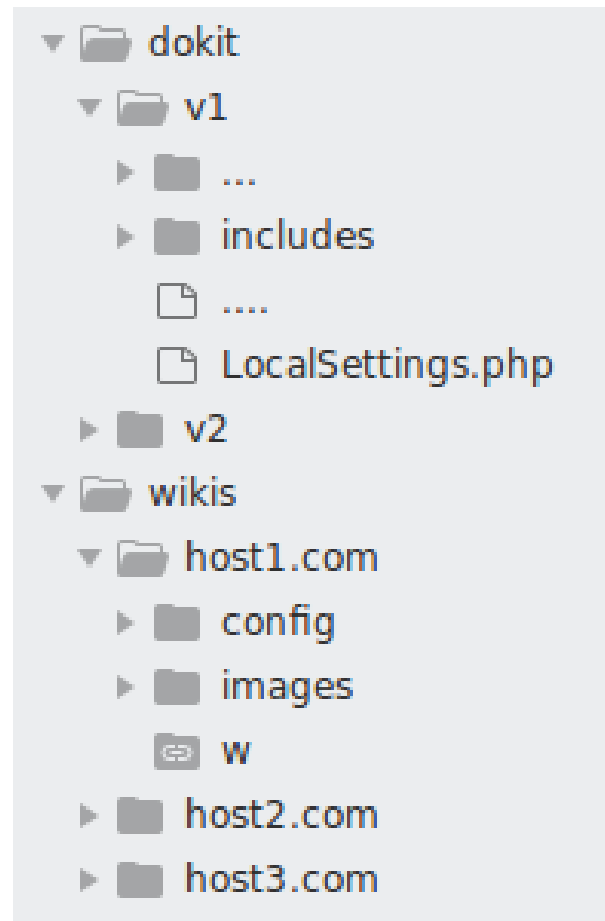


Farm design

Deploy standard mediawiki packages,

link w/ directory to a dokit version,

set environnement variable to define config & images directories.



How to create a new wiki

- Create host directory, with config and images directories
- Add link w/ to the Dokit package
- Add host configuration in webserver (apache) to point domain name to the right directory
- Create mysql database & mysql user
- Initiate wiki database

Automatization :

how to initiate a new wiki database

```
php maintenance/install.php --confpath=/dev/null
--dbtype=mysql --dbserver={{database_host}}
--dbuser={{mysql_dbname}} --dbpass={{mysql_pass}}
--dbname={{mysql_dbname}} --lang={{lang_code}}
--pass={{adminuser_password}} "{{wiki_name}}"
"{{adminuser_name}}"
```

```
copy LocalSettings.php
```

```
php maintenance/update.php
```

```
php extension/Dokit/maintenance/initPages.php
```

Automatization tool



Automatization : use Ansible

- Hosts file
- Playbook file
- Roles

Automatization : use Ansible

- Playbook : dokit-farm.yml
 - Load balancer (haproxy, SSL certificate)
 - Database server (mysql)
 - App server (apache, parsoid, dokit-package)

Automatization : use Ansible

- Playbook : dokit-wiki.yml
 - Create mysql database
 - Create wiki config and directories
 - Create apache vhost
 - Call installation script
 - Update parsoid.yml
 - Add supervisor runJobs script

Other Tool used

- Jobs : supervisor

- `php maintenance/runJobs.php --wait --maxjobs 1000`

The end